# CONTROLLING VISIBILITY IN MULTI-VERSION DATABASE SYSTEMS

## ABSTRACT OF THE DISCLOSURE

A multi-version database system controls visibility of data during transaction
5    processing. A transaction includes a transaction identifier that identifies the transaction
and an invisibility list of transactions whose effects are invisible to the transaction.
Changes made by other transactions are visible to the transaction based on the isolation
level of the transaction. Records are visible to a transaction based on a creator identifier
stored in the record that identifies the transaction that created the record.